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Find the *Measurement Computing / ComputerBoards PCI-CTR05* at our website: *Click HERE*

PCI-CTR05

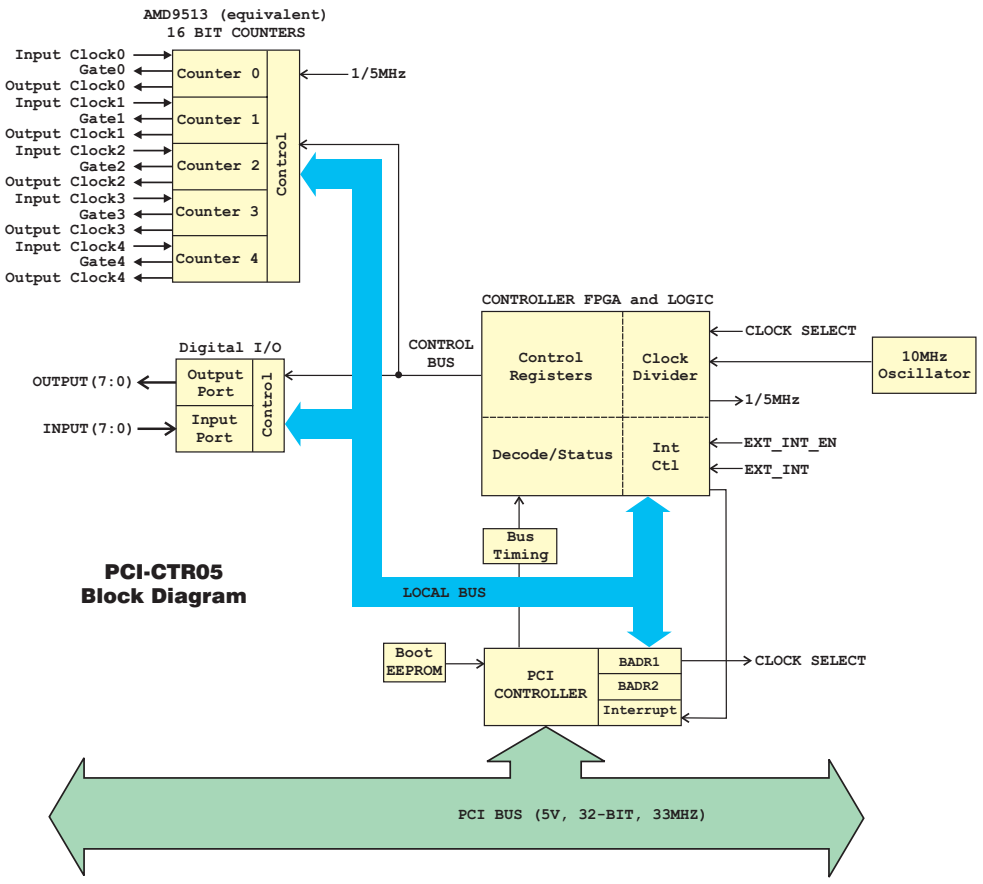
Low Cost, PCI-bus Compatible, 5 Channel, Counter/Timer Board



Features

- Low cost
- 5 Channels, 16-bit counter/timer
- 8 Digital outputs
- 8 Digital inputs
- On-board 10 MHz clock
- Based on powerful 9513 series chip
- Connector compatible with CIO-CTR05
- Register compatible with CIO-CTR05
- Fully plug-and-play

Block Diagram



PCI-CTR05
Block Diagram

I/O Connector & Cables

All PCI-CTR05 I/O signals are brought through a 37-pin "D" connector. The (optional) C37FF-XX series cable brings all of the pins out and is suitable for use with all compatible screw terminal and signal conditioning accessory boards. The PCI-CTR05 connector pinout is identical to the standard ISA bus CIO-CTR05 and is fully compatible with the same wide assortment of screw terminal accessory boards.

Functional Description

The PCI-CTR05 is a high performance, low cost 9513 based counter/timer board for PCI bus compatible computers. Each 9513 provides five counters with 16 bit (65,536 count) count registers. The 9513 is an extremely powerful and flexible and is software programmable for event counting, pulse & frequency measurement, alarm comparator and other input functions. The 9513 can also generate frequencies with complex duty cycles and in one-shot and continuous modes.

The 9513 counters may be chained via software, enabling a 32, 48, 64 or 80 bit counters without requiring hardware connections. In addition the gate source and gating functions are software programmable.

An 8-bit high current digital output port provides logic level control capability and may be used to switch solid state relays. An 8- bit digital input port may be used to sense contact closures. Access to the PCI bus interrupts is also provided.

Specifications

Counter/Timers

Counter type	AM9513 or compatible
Configuration	Five 16-bit up/down counters per AM9513 All Counters (0 -4) provide Gate, Source and Output connections at the 37-pin I/O connector.
Clock input frequency	6.8 Mhz max (145 nsec min period)
High pulse width (clock input)	70ns min
Low pulse width (clock input)	70ns min
Gate width	145 ns min
Input low voltage -	0.5 min, 0.8V max
Input high voltage	2.2V min, VCC max
Output low voltage	0.4V max @ 3.2 mA
Output high voltage	2.4V min @ -200 uA

Clock source oscillator section

Oscillator type	10MHz crystal divided on-board to 5 MHz or 1 MHz (software selectable)
Initial tolerance	±0.005%
Temperature coefficient	±50 ppm/°C

Digital Input / Output

Output:	74ACT273
Input:	74LS373
Configuration	1 bank of 8 as output, 1 bank of 8 as input
Number of channels	8 input, 8 output
Output High	2.4 volts min @ -24mA
Output Low	0.5 volts max @ 24 mA
Input High	2.0 volts min, 7 volts absolute max
Input Low	0.8 volts max, -0.5 volts absolute min
Interrupts	INTA# - mapped to IRQn via PCI BIOS at boot-time
Interrupt enable	External source - enable & polarity programmable
Interrupt sources	External source, polarity programmable 1 = active high, 0 = active low

Power consumption

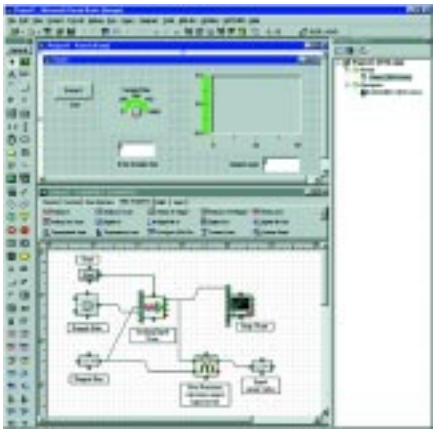
+5V Operating	307 mA typical, 550 mA max

Environmental

Operating / storage temp	0 to 50 °C / -20 to 70 °C
Humidity	0 to 90% non-condensing

Software

ThePCI-CTR05 series boards come complete with ComputerBoards' powerful ***Insta*Cal**™ software package. ***Insta*Cal** is a complete installation, calibration and test program for ComputerBoards data acquisition boards. Complete with extensive error checking, *Insta*Cal guides you through installation and setup of your data acquisition board and creates the board configuration file for use by your program or application software package. *Insta*Cal is described in the software section of this website.



SoftWIRE for Visual Basic combines the simplicity of graphical programming with the power and flexibility of programming in VB!

The boards are fully supported by ComputerBoards' powerful Universal Library. Universal Library is a complete set of I/O libraries and drivers for all of our boards, for all Windows based languages. When using the Universal Library you can switch boards or even programming languages and the syntax remains constant. Universal Libraryis fully described in the software section of this website.

The PCI-CTR05 boards are fully supported by a wide variety of applications software packages including SoftWIRE™, DAS-Wizard™, (and DAS-Wizard Pro™), HP VEE®, HP VEE Lab and LabVIEW™. For further details on these, as well as a variety of other software packages, please refer to the software section provided earlier in this website.

Ordering Guide

PCI-CTR05 5 Channel 16-bit PCI bus compatible counter/timer boardm with 8 digital inputs and 8 digital outputs

Screw Terminal Boards and Boxes



SCB-37 Screw Connection Box
37 terminal shielded screw terminal box.
Requires C37FF-X series cable



CIO-MINI-37
37 terminal shielded screw terminal box.
Requires C37FF-X series cable

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